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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,724	11/22/2006	Hendrik Johan Berends	5100-0000016/US	5599
30593	7590	12/17/2009	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			MENON, KRISHNAN S	
P.O. BOX 8910			ART UNIT	PAPER NUMBER
RESTON, VA 20195			1797	
MAIL DATE	DELIVERY MODE			
12/17/2009	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/534,724	BERENDS, HENDRIK JOHAN	
	Examiner	Art Unit	
	Krishnan S. Menon	1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 October 2009.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-6 and 8-24 is/are pending in the application.
 4a) Of the above claim(s) 10,11,19,20 and 23 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-6,8,9,12-18,21,22 and 24 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

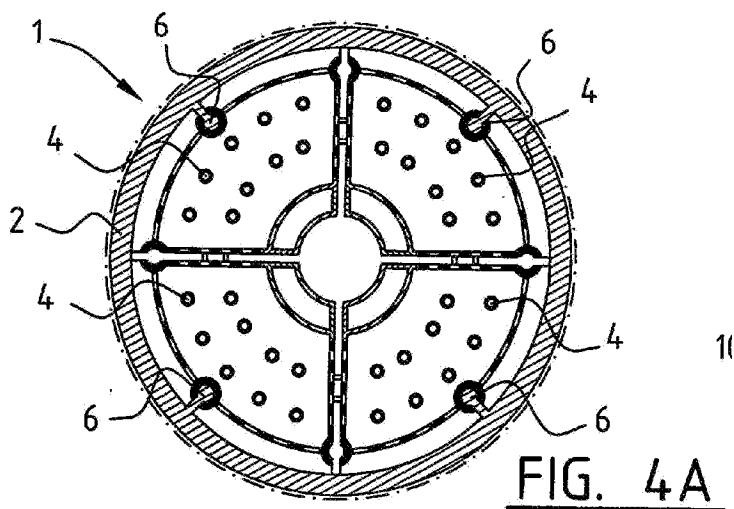
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

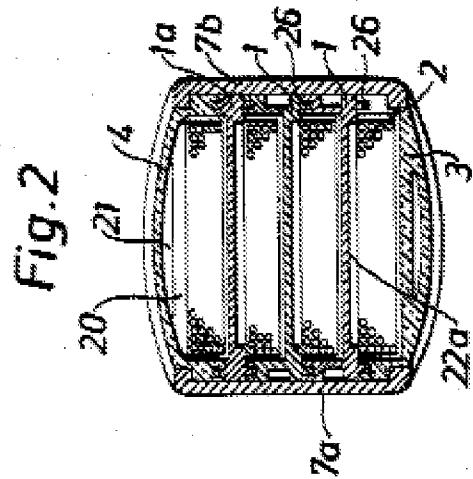
Applicant elected the species represented by fig. 4A, which is reproduced below for convenience:



Claim Rejections - 35 USC § 102

1. Claims 1-4, 6,8,9, 12, 21,22 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Spranger (US 4,231,879).

Spranger teaches a housing formed by (3,4,7a,7b) as shown in fig 2 copied below. Contained in this housing is a plurality of membrane stacks (1) in U-shaped holders. The sides of the holders have grooves having gasket material (26) in the form of ribs – see the figure. There are also by-pass spaces between (1) – space between 19,19', etc – see fig 1 in the reference. The holders are openable because of the way they are stacked – one mates with the next.



As can be seen from the figure above, the holders are arranged in the housing via ribs (gasket material) and grooves. Claim does not specify that the rib is on the inner wall of the housing, or that the membrane holder is attached to the housing with the groove and rib joint.

Claim Rejections - 35 USC § 103

- 2. Claims 1-6,8,9,12-18,21,22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spranger as above and further in view of Baudet et al (US 3,993,816) and/or Dannenmaier et al (US 2004/0200768).**

Some of the dependent claims differ in that (1) the walls of the holder being perforated, and (2) the sides of the holder can be disconnected to bend open the holder. Baudet'816 teaches perforated sides for the holder (see fig 10), and Dannenmaier teaches holders with longitudinal joints that can be disconnected and the holders bend open. It would be obvious to combine such details into the teaching of Baudet'190 or Spranger because these modifications add nothing more than predictable

results to the combination. Particularly, the perforated walls provide fluid exchange, when the purpose of the holder is purely to hold the membranes in position for easy assembly, and does not contribute towards the performance of the finished product. Similarly, the bendable holder is also for easy loading of the hollow fibers for assembly, and is not otherwise contributing to the finished product.

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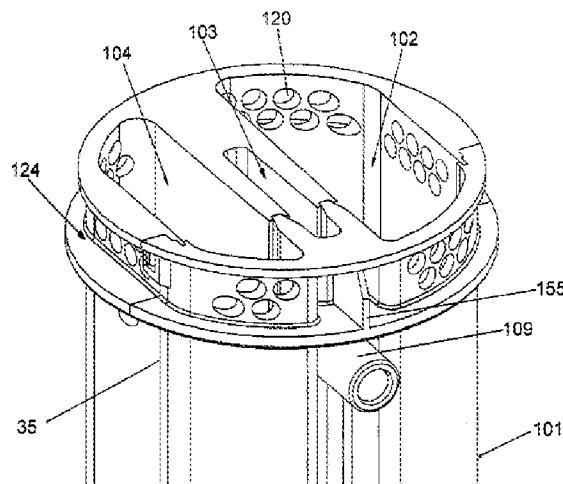


Fig. 8

The grooves and ribs guided in the grooves – see grove and rib joint on the central partitions in the figure above.

Also non-patentable are the limitations claimed on the grooves and ribs, etc, which function purely for assembly, and thus part of the process of making, unless applicant can show secondary evidence for patentability.

Allowable Subject Matter

As indicated in the interview summary record of 12/4/09

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on 571-272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/
Primary Examiner, Art Unit 1797